

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): BAHAR et al.

Group Art Unit: TO BE ASSIGNED

Serial No.: TO BE ASSIGNED

(Divisional claiming priority to 09/841,253 filed 4/25/01; Examiner: TO BE ASSIGNED  
09/209,932 filed 7/8/98;  
08/903,844 filed 7/31/97; and  
08/339,425 filed 11/14/94)

Filed: August 3, 2001

For: AN ULTRA-THIN INTEGRAL COMPOSITE MEMBRANE

**INFORMATION DISCLOSURE STATEMENT**

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

Pursuant to Rule 56, applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449. Copy(ies) of these references ☐ are attached ☒ were filed in related application U.S. Serial No(s) 09/209,932; 08/903,844 and 08/339,425, filed 7/8/98; 7/31/97 and 11/14/94, respectively. By disclosing these references, the applicants do not admit that the references are prior art.

- ☐ This document is being filed within three (3) months of the filing date of the application
- ☐ Please charge the \$180 fee to Deposit Account No. , Order No. .
- ☒ This document is being concurrently filed with the above-identified application
- ☐ This document is being concurrently filed with an Request for Continued Examination (RCE)
- ☐ This document is being filed prior to a first Office Action
- ☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 0769-4582US2. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

MORGAN & FINNEGAN, L.L.P.

Dated: August 3, 2001

By: 

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<b>FORM PTO-1449</b>  <b><u>INFORMATION DISCLOSURE CITATION</u></b>				Attorney Docket: 0769-4582US2		Serial No.: TO BE ASSIGNED	
				Applicant: Bahar et al.			
				Filing Date: 8/3/01		Group Art Unit: TO BE ASSIGNED	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA	3,692,569	9/72	Grot			
	AB	4,341,615	7/82	Bachot et al.			
	AC	4,453,991	6/84	Grot			
	AD	4,604,170	8/86	Miyake et al.			
	AE	4,865,925	9/89	Ludwig et al.			
	AF	4,902,308	2/90	Mallouk et al.			
	AG	4,954,388	9/90	Mallouk et al.			
	AH	5,082,472	1/92	Mallouk et al.			
	AI	5,094,895	3/92	Branca et al.			
	AJ	5,183,545	2/93	Branca et al.			
	AK	4,218,542	8/80	Ukihashi, et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub-Class	Translation
	AL	62-240627		Japan			<input type="checkbox"/> Yes <input type="checkbox"/> No
	AM	5-75835	10/21/93	Japan			<input type="checkbox"/> Yes <input type="checkbox"/> No
	AN	51-71888	6/22/76	Japan			<input type="checkbox"/> Yes <input type="checkbox"/> No
	AO	91/14021	9/19/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	AP	H6-29032	2/4/94	Japan			<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>OTHER DOCUMENTS (Including Author, Title, Date, etc.)</b>							
	AR	Reginald M. Penner, et al., "Ion Transporting Composite Membranes," Journal Electrochem Soc., Vol. 132 #2, Feb. 1985					
	AS	Liu et al., "Ion Transporting Composite Membranes," J. Electrochem. Soc., Vol. 137, Mo. 2, 2/90					
	AT						
Examiner				Date Considered			
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>				Attorney Docket: 0769-4582US2		Serial No.: TO BE ASSIGNED	
				Applicant: Bahar et al.			
				Filing Date: 8/3/01		Group Art Unit: TO BE ASSIGNED	

  

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA	4,255,523	3/81	Ukihashi et al.			
	AB	4,698,243	10/87	Carl, et al.			
	AC	5,547,551	8/96	Bahar et al.			
	AD	5,190,813	3/2/93	Ohashi et al.			
	AE	4,311,567	1/19/82	White			
	AF	4,433,082	2/21/84	Grot			
	AG	4,528,083	7/9/95	LaConti et al.			
	AH	5,041,195	8/20/91	Taylor et al.			
	AI	5,133,842	7/28/92	Taylor et al.			
	AJ	5,183,713	2/2/93	Kunz			
	AK	5,350,643	9/27/94	Imahashi et al.			

  

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub-Class	Translation
	AL						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AM						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AN						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AO						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AP						<input type="checkbox"/> Yes <input type="checkbox"/> No

  

OTHER DOCUMENTS (Including Author, Title, Date, etc.)		
	AR	
	AS	
	AT	

  

Examiner	Date Considered
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EXAMINER:	Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.
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<b>FORM PTO-1449</b>  <b><u>INFORMATION DISCLOSURE CITATION</u></b>				Attorney Docket: 0769-4582US2		Serial No.: TO BE ASSIGNED	
				Applicant: Bahar et al.			
				Filing Date: 8/3/01		Group Art Unit: TO BE ASSIGNED	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date
	AA	5,635,041	6/97	Bahar et al.			
	AB	5,599,614	2/97	Bahar et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub- Class	Translation
	AL						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AM						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AN						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AO						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AP						<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>OTHER DOCUMENTS (Including Author, Title, Date, etc.)</b>							
	AR						
	AS						
	AT						
Examiner				Date Considered			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): BAHAR et al.

Group Art Unit: 1771

Serial No.: 09/921,183

Examiner: TBA

Filed: August 3, 2001

For: AN ULTRA-THIN INTEGRAL COMPOSITE MEMBRANE

INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

Pursuant to Rule 56, applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449. Copies of these references ☒ are attached. By disclosing these references, the applicants do not admit that the references are prior art.

- ☐ This document is being filed within three (3) months of the filing date of the application
- ☐ Please charge the \$180 fee to Deposit Account No. , Order No. .
- ☐ This document is being concurrently filed with the above-identified application
- ☐ This document is being concurrently filed with an Request for Continued Examination (RCE)
- ☒ This document is being filed prior to a first Office Action
- ☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 0769-4582US2. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

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Dated: November 13, 2001

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Bahar et al.  
Serial No.: TBA: Continuation of USSN 09/921,183  
Filed: October 2, 2003  
For: AN ULTRA-THIN INTEGRAL COMPOSITE MEMBRANE

Group Art Unit: 1762  
Examiner: TBA

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to Rule 56, applicant hereby calls the attention of the Patent Office to the references listed on the attached Form PTO-1449. Copies of two (2) references are attached. Information Disclosure Statements and copies of references were also filed in related applications. Copies of previously filed Information Disclosure Statements from said related applications and Forms PTO-1449 are attached as follows:

- ☒ Information Disclosure Statement with 3 page Form PTO-1449 filed in 09/921,183 on August 3, 2001, and
- ☒ Information Disclosure Statement with 1 page Form PTO-1449 filed in 09/921,183 on November 13, 2001.
- ☐ This document is being filed within three (3) months of the filing date of the application
- ☐ A check for the requisite fee of \$180 is enclosed.
- ☒ This document is being concurrently filed with the above-identified application
- ☐ This document is being concurrently filed with an Request for Continued Examination (RCE)
- ☐ This document is being filed prior to a first Office Action
- ☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.

- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 0769-4582US6. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: October 2, 2003

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- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 0769-4582US6. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: October 2, 2003

By: 

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<b>FORM PTO-1449</b>				Attorney Docket: 0769-4582US6		Serial No.: TBA	
<b>INFORMATION DISCLOSURE CITATION</b>				Applicant: Bahar et al.			
				Filing Date: October 2, 2003		Group Art Unit: 1762	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	AA	3,647,086	03/07/72	Mizutani et al.			
	AB	5,211,827	05/18/93	Peck			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	AL						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AM						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AN						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AO						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AP						<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)</b>							
	AR						
	AS						
	AT						
Examiner				Date Considered			
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							